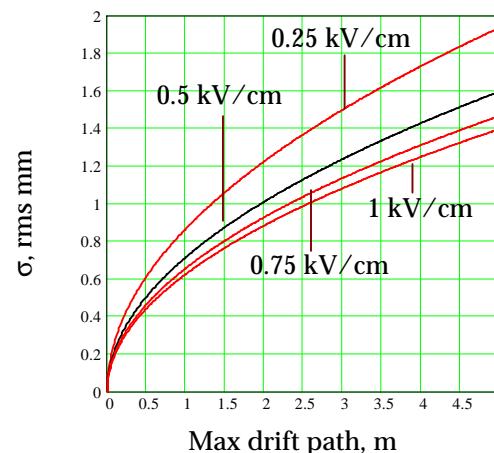
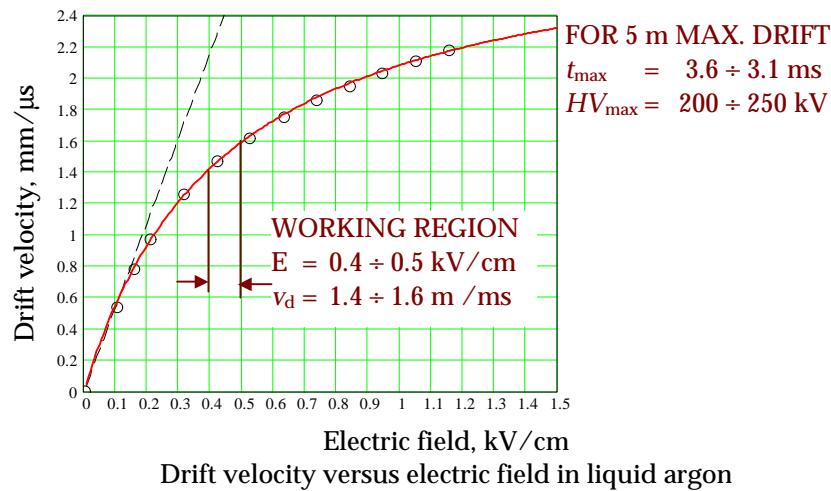


Drift velocity, diffusion, purity and attenuation



$$\sigma_D = \sqrt{2 \cdot D \cdot \frac{X}{v_d}}$$

$$D = 4.06 \text{ cm}^2/\text{s}$$

$\sigma_D = 0.9 \text{ mm} \cdot \sqrt{T_D/\text{ms}}$
Longitudinal rms diffusion spread
at 0.5 kV/cm
Average $\langle \sigma_D \rangle = 1.1 \text{ mm}$
Maximum $\sigma_{D\max} = 1.6 \text{ mm}$

